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## POTW Mercury Data

POTW influent pre-Hg P2                      100+ ng/l

POTW Hg removal                                      95%

POTW effluent pre-Hg P2                      5    ng/l

Dental Load to POTW                                      50%

Hospitals, Clinics, Schools, Labs                      30%

Residential or Other                                      20%

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## Dental Mercury Data

% Dental Loading to POTW 50%

% Hg capture w/ traps and filters 50%

% Hg capture w/ t/f/separators 95%

Dental Office Hg Concentration 30-150 mg/l  
(effluent, settled but w/o separator)

POTW Local Hg Limits 0.2-0.002 mg/l  
(typical, sewer use ordinance)

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## POTW / Dental Calculation

(Traps and Filters Only)

POTW Effluent pre-P2	5.0 ng/l
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Reduction w/ dental traps/filters (50% load, 50% capture)	-1.25 ng/l
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Reduction other sectors (30% load, 90% capture)	-1.35 ng/l
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POTW Effluent (much greater than 1.3 ng/l water quality criteria)	2.4 ng/l
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## POTW / Dental Calculation

(Traps, Filters, Separators)

POTW Effluent pre-P2	5.0 ng/l
Reduction w/ dental t/f/separators (50% load, 95% capture)	-2.38 ng/l
Reduction other sectors (30%load, 90% capture)	-1.35 ng/l
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POTW Effluent (meets 1.3 ng/l water quality criteria)	1.3 ng/l

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## Dane County Amalgam Recycling Survey (Wisconsin, Draft Survey)

Scrap Recycle	79%
Chairside Trap Recycle	33%
Vacuum Filter Recycle	18%
Tooth Recycle	9%
Amalgam Separators	0%

Similar survey results in King County (Seattle), WA

## Comparative Mercury Treatment Costs

### Amalgam Separators

Capitol cost	\$500-\$4,000
Annual O&M	\$100-\$1,800

Easy for Dentist to Use; Easy for POTW to check  
Separators are “Best Management Practices”

Note: POTW Hg Treatment estimate:  
\$2,000,000 per MGD per year